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CANADIANA

JUN 16 1992

# ALBERTA POPULATION GROWTH

FOURTH QUARTER, 1991

Alberta

TREASURY  
Bureau of Statistics



42.1.875

## ERRATA

CANADIANA

### ALBERTA POPULATION GROWTH FOURTH QUARTER, 1991

JUN 23 1992

1. TABLE OF CONTENTS, Page iii,

- Tables, No. 5, Population Growth by Census Year.....  
Now reads 1981-1990. Should read **1981-1991**.
- Appendix, No. 1. Methodology  
Page number now reads 17, should read 14.
- Appendix, No. 2. Glossary  
Page number now reads 21, should read 17.

2. On Page 8, Table 2, bottom five rows in the last two columns:

<u>Quarters</u>	(Now Reads)		(Should Read)	
	<u>Total Net</u> <u>Net Migration</u>		<u>Total Net</u> <u>Net Migration</u>	
<u>1991</u>				
Ir	1,830	4,460	<b>1,400</b>	<b>4,150</b>
IIr	3,520	6,040	<b>1,830</b>	<b>4,460</b>
IIIr	510	3,870	<b>3,520</b>	<b>6,040</b>
IV	7,260	18,520	<b>510</b>	<b>3,870</b>
TOTAL			<b>7,260</b>	<b>18,520</b>

3. On Page 10, Table 3 now reads IIIp and IV. Should read **III** and **IVp**.

We regret any inconvenience these errors may have caused.

June, 1992  
ABS

**ALBERTA POPULATION GROWTH**  
**FOURTH QUARTER, 1991**

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May 1992





## PREFACE

This publication presents up-to-date information on quarterly population estimates and population growth components (births, deaths and migration) for the Province of Alberta. These statistics, jointly prepared with the Demography Division of Statistics Canada, are derived using several government administrative data files.

Enquiries concerning the publication or requests for additional copies or previous quarterly reports should be directed to:

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## ALBERTA POPULATION GROWTH, FOURTH QUARTER, 1991

Alberta's population increased by 10,180 people during the fourth quarter of 1991, reaching 2,549,500 on January 1, 1992. While international migration remained stable, interprovincial migration decreased due to fewer arrivals from Ontario and Saskatchewan.

Total growth for 1991 was 47,280, down from 50,750 in 1990. Even though the rate of growth slowed in 1991, at 1.9% it remains the second highest among the provinces, after British Columbia at 2.5%.

### INTRODUCTION

This publication presents the most recent population estimates by component (migration, births and deaths) for Alberta for the fourth quarter of 1991. Also incorporated are historical data by quarter since 1986, statistics on quarterly flows between Alberta and other provinces (1990-91), and population growth components by census year (1981-91).

Quarterly data on migration components for 1989 and 1990 have been revised using several government administrative files. Further revision will occur to incorporate 1991 census data, as information on population growth components becomes available.

The three charts depict population movements. Figures 1 and 2 illustrate changes since 1981 on major population growth components and interprovincial migration, respectively. Figure 3 shows migration exchange between Alberta and other provinces for the fourth quarter, 1991. The appendix contains the methodology and sources of information employed in deriving the population estimates.



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## QUARTERLY GROWTH STATISTICS:

- During the fourth quarter of 1991, Alberta's population increased by 10,180, reaching 2,549,500 on January 1, 1992. The population increase in this quarter was lower than the previous quarter (13,340), and the same quarter last year (13,650) (Table 1). This was due to fewer people migrating to Alberta from Ontario and Saskatchewan.
- In interprovincial population exchange, the fourth quarter gain was only 510, compared to 3,520 in the previous quarter and 4,210 in the same quarter last year (Table 3). Alberta gained from all provinces and territories except British Columbia, to which it lost 3,050 people this quarter.
- The net international migration to Alberta was 3,360, higher than both the previous quarter (2,520) and the same quarter last year (3,110) (Table 2).
- The natural increase (9,980 births minus 3,670 deaths) contributed 6,310 people to Alberta's population (Table 4).





## ANNUAL GROWTH STATISTICS:

- In 1991, Alberta's population grew by 47,280, down from 50,750 in the previous year, due mostly to a decline in net migration to Alberta. Even though the growth rate has slowed, at 1.9%, it remains second highest among the provinces, after British Columbia at 2.5%.
- Net interprovincial migration to Alberta during 1991 was 7,260, lower than the 1990 level of 8,480, due mainly to a drop in the number of people moving to Alberta from Ontario and Saskatchewan.
- In 1991, the number of immigrants to Alberta was 16,840, down from the previous year (18,940). As a result, the net international migration to Alberta dropped to 11,260 from 13,320 in 1990 (Table 2).
- The natural increase in population was 28,760 for 1991, compared to 28,950 in 1990.





FIGURE 1  
POPULATION GROWTH BY MAJOR COMPONENT  
ALBERTA, 1981-1991

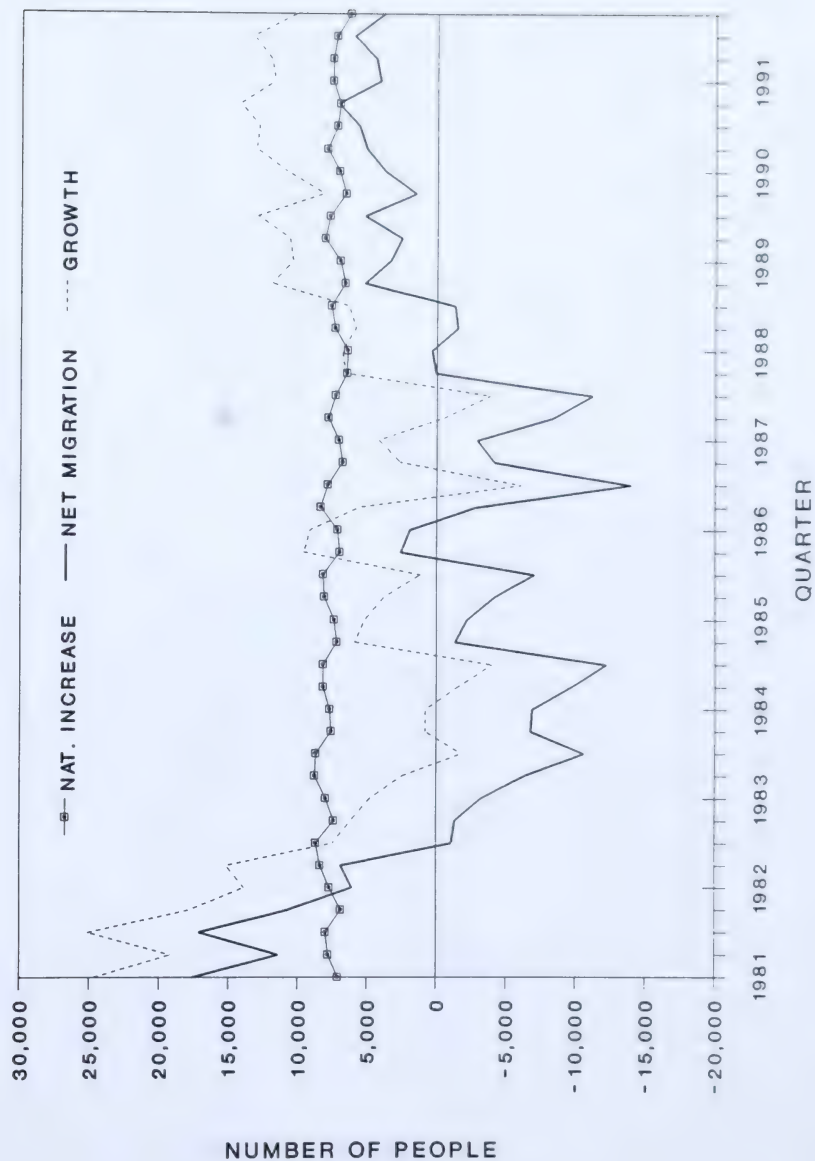
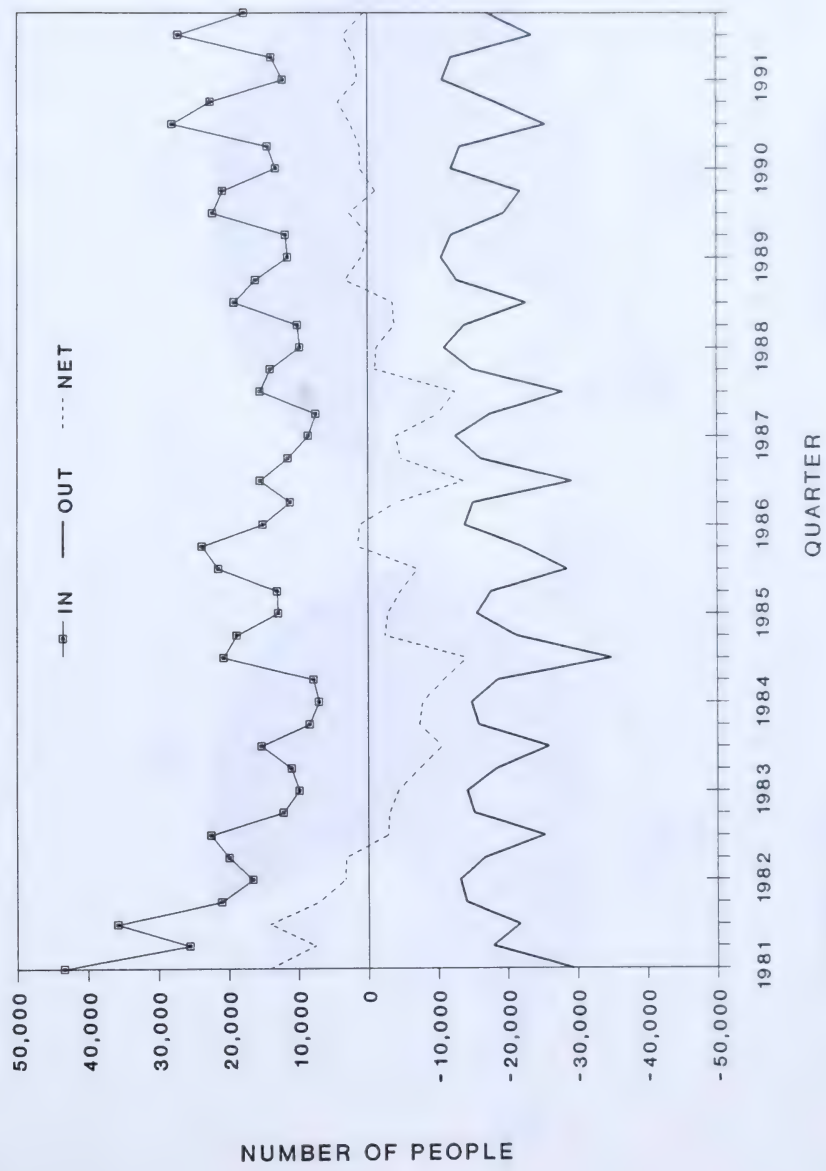




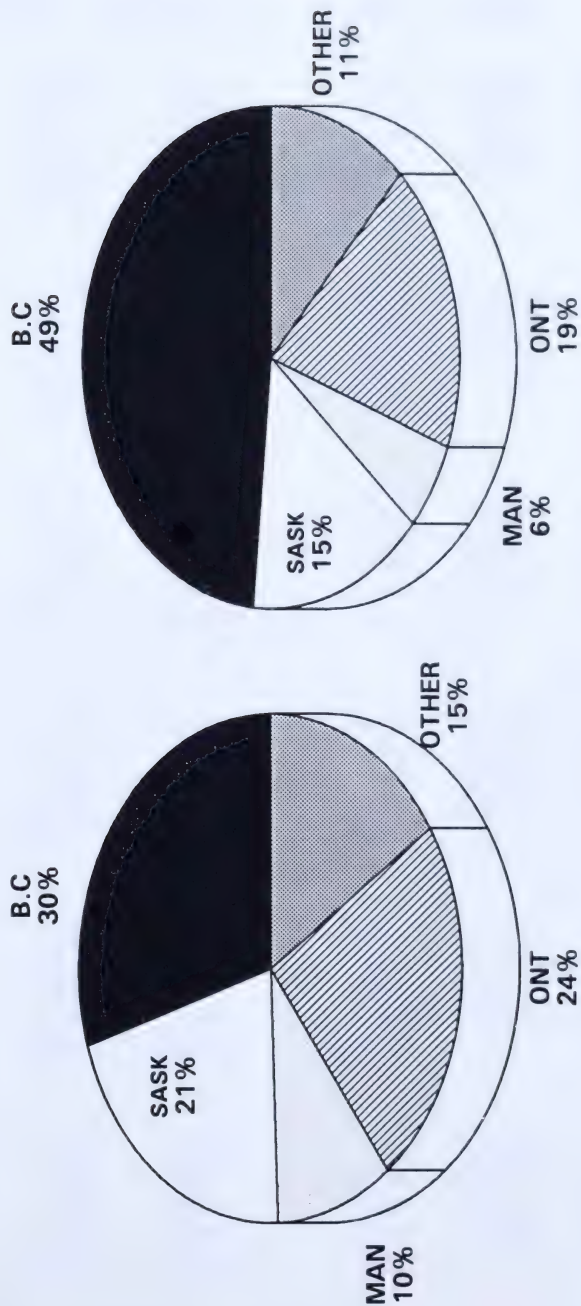
FIGURE 2  
INTERPROVINCIAL MIGRATION BY COMPONENT  
ALBERTA, 1981-1991







**FIGURES 3**  
**POPULATION EXCHANGE WITH OTHER PROVINCES**  
**FOURTH QUARTER, 1991**



**IN-MIGRATION**  
**(17,700 PERSONS)**

**OUT-MIGRATION**  
**(17,190 PERSONS)**





TABLE 1  
POPULATION GROWTH BY MAJOR COMPONENT  
ALBERTA, 1986 TO 1991

Quarter	Natural Increase	Net Migration	Growth	Population	
<u>1986</u>					
I	7,170	1,950	9,120	2,368,200	(Apr 1, 86)
II	8,380	-2,780	5,600	2,373,800	(Jul 1, 86)
III	7,880	-13,940	-6,060	2,367,800	(Oct 1, 86)
IV	6,810	-4,140	2,670	2,370,500	(Jan 1, 87)
<u>TOTAL</u>	30,240	-18,900	11,340		
<u>1987</u>					
I	7,100	-2,890	4,210	2,374,700	(Apr 1, 87)
II	7,840	-8,340	-500	2,374,200	(Jul 1, 87)
III	7,340	-11,170	-3,830	2,370,300	(Oct 1, 87)
IV	6,520	110	6,630	2,377,000	(Jan 1, 88)
<u>TOTAL</u>	28,790	-22,290	6,500		
<u>1988r</u>					
I	6,470	370	6,840	2,383,800	(Apr 1, 88)
II	7,370	-1,480	5,890	2,389,700	(Jul 1, 88)
III	7,650	-1,280	6,370	2,396,100	(Oct 1, 88)
IV	6,670	5,260	11,930	2,408,000	(Jan 1, 89)
<u>TOTAL</u>	28,160	2,870	31,030		
<u>1989r</u>					
I	7,010	3,410	10,420	2,418,400	(Apr 1, 89)
II	8,100	900	9,000	2,427,400	(Jul 1, 89)
III	7,760	1,430	9,190	2,436,600	(Oct 1, 89)
IV	6,640	8,250	14,890	2,451,500	(Jan 1, 90)
<u>TOTAL</u>	29,510	13,990	43,500		
<u>1990</u>					
I	7,180	5,270	12,450	2,463,900	(Apr 1, 90)
II	8,010	3,520	11,530	2,475,400	(Jul 1, 90)
III	7,430	5,690	13,120	2,488,500	(Oct 1, 90)
IVr	6,330	7,320	13,650	2,502,200	(Jan 1, 91)
<u>TOTAL</u>	28,950	21,800	50,750		
<u>1991</u>					
Ir	7,570	4,150	11,720	2,513,900	(Apr 1, 90)
IIr	7,580	4,460	12,040	2,525,900	(Jul 1, 90)
IIIr	7,300	6,040	13,340	2,539,300	(Oct 1, 90)
IVp	6,310	3,870	10,180	2,549,500	(Jan 1, 91)
<u>TOTAL</u>	28,760	18,520	47,280		

Notes: Total population is rounded to the nearest 100.  
Data may not add to totals due to rounding.  
r: revised  
p: preliminary



TABLE 2  
MIGRATION BY COMPONENT  
ALBERTA, 1986 TO 1991

	International			Interprovincial			
Quarter	Im- migration	Em- igration	Net	In Migration	Out Migration	Net	Total Net Migration
<u>1986</u>							
I	2,200	1,440	760	15,040	13,850	1,190	1,950
II	2,540	1,360	1,180	11,090	15,050	-3,960	-2,780
III	2,530	2,720	-190	15,450	29,190	-13,740	-13,930
IV	2,310	1,750	560	11,410	16,110	-4,700	-4,140
TOTAL	9,580	7,270	2,310	52,990	74,200	-21,210	-18,900
<u>1987</u>							
I	2,600	1,520	1,080	8,570	12,540	-3,970	-2,890
II	3,190	1,500	1,690	7,440	17,470	-10,030	-8,340
III	3,530	2,140	1,390	15,390	27,950	-12,560	-11,170
IV	2,650	1,510	1,140	13,900	14,930	-1,030	110
TOTAL	11,970	6,670	5,300	45,300	72,890	-27,590	-22,290
<u>1988</u>							
I	2,860	1,210	1,650	9,690	10,970	-1,280	370
II	3,650	1,250	2,400	10,000	13,880	-3,880	-1,480
III	4,220	1,900	2,320	19,110	22,710	-3,600	-1,280
IV	3,300	1,260	2,040	16,020	12,800	3,220	5,260
TOTAL	14,030	5,620	8,410	54,820	60,360	-5,540	2,870
<u>1989r</u>							
I	3,350	840	2,510	11,450	10,550	900	3,410
II	4,180	1,460	2,720	12,110	13,930	-1,820	900
III	4,570	1,990	2,580	22,450	23,600	-1,150	1,430
IV	4,120	1,310	2,810	18,670	13,230	5,440	8,250
TOTAL	16,220	5,600	10,620	64,680	61,310	3,370	13,990
<u>1990r</u>							
I	3,920	870	3,050	13,360	11,140	2,220	5,270
II	5,370	1,490	3,880	13,270	13,630	-360	3,520
III	5,260	1,980	3,280	27,930	25,520	2,410	5,690
IV	4,390	1,280	3,110	22,460	18,250	4,210	7,320
TOTAL	18,940	5,620	13,320	77,020	68,540	8,480	21,800
<u>1991</u>							
I <sub>r</sub>	3,620	870	2,750	12,110	10,710	1,830	4,460
II <sub>r</sub>	4,100	1,470	2,630	13,810	11,980	3,520	6,040
III <sub>r</sub>	4,460	1,940	2,520	27,090	23,570	510	3,870
IV	4,660	1,300	3,360	17,700	17,190	7,260	18,520
TOTAL	16,840	5,580	11,260	70,710	63,450		

Notes: Data may not add to totals due to rounding.

r: revised

p: preliminary





TABLE 3  
POPULATION EXCHANGE WITH OTHER PROVINCES  
ALBERTA, 1990 TO 1991

Quarter	Migration	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	BC	TERR	TOTAL
<u>1990</u>												
I	To Alta.	210	30	350	160	540	3170	1220	3370	3970	340	13360
	From Alta.	180	40	190	160	250	1980	680	1280	5970	410	11140
	Net Exchange	30	-10	160	0	290	1190	540	2090	-2000	-70	2220
II	To Alta.	170	50	330	140	340	3050	1320	3250	4230	390	13270
	From Alta.	140	50	430	190	270	2530	770	1920	6880	450	13630
	Net Exchange	30	0	-100	-50	70	520	550	1330	-2650	-60	-360
III	To Alta.	510	140	810	710	1470	8040	2690	5930	6840	800	27930
	From Alta.	410	140	690	530	880	5650	1460	3050	11880	850	25520
	Net Exchange	100	0	120	180	590	2390	1230	2880	-5040	-50	2410
IV	To Alta.	320	80	630	380	1040	6530	1960	4860	6020	660	22460
	From Alta.	190	60	530	320	530	3120	1060	2230	9730	470	18250
	Net Exchange	130	20	100	60	510	3410	900	2630	-3710	190	4210
TOTAL	To Alta.	1210	290	2120	1390	3390	20790	7190	17400	21060	2190	77020
	From Alta.	920	280	1840	1200	1930	13280	3970	8480	34460	2180	68540
	Net Exchange	290	10	280	190	1460	7510	3220	8920	-13400	10	8480

Notes: Data may not add to totals due to rounding.

p: Preliminary



TABLE 3 (Concluded)  
POPULATION EXCHANGE WITH OTHER PROVINCES  
ALBERTA, 1990 TO 1991

Quarter	Migration	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	BC	TERR	TOTAL
<u>1991</u>												
I	To Alta.	210	60	160	130	410	2760	1090	2990	3890	400	12110
	From Alta.	130	40	200	120	220	1850	520	1780	5460	400	10710
	Net Exchange	80	20	-40	10	190	910	570	1210	-1570	0	1400
II	To Alta.	260	70	230	210	600	3440	1250	2720	4570	470	13810
	From Alta.	150	60	300	200	240	2310	680	1700	5990	370	11980
	Net Exchange	110	10	-70	10	360	1130	570	1020	-1420	100	1830
IIIp	To Alta.	520	320	1040	570	1460	6490	2300	5890	7760	740	27090
	From Alta.	410	100	840	430	900	4770	1600	3090	10870	560	23570
	Net Exchange	110	220	200	140	560	1720	700	2800	-3110	180	3520
IV	To Alta.	440	130	520	440	670	4230	1750	3660	5290	570	17700
	From Alta.	220	80	400	290	530	3220	980	2590	8340	540	17190
	Net Exchange	220	50	120	150	140	1010	770	1070	-3050	30	510
TOTAL	To Alta.	1420	580	1950	1350	3140	16920	6400	15260	21510	2190	70710
	From Alta.	900	280	1740	1030	1890	12140	3780	9170	30650	1870	63440
	Net Exchange	520	300	210	320	1250	4780	2620	6090	-9140	320	7260

Notes: Data may not add to totals due to rounding.

p: Preliminary





TABLE 4  
NATURAL INCREASE BY COMPONENT  
ALBERTA, 1986-1991

Year	Quarter	Births	Deaths	Natural Increase
<u>1986</u>				
	I	10,660	3,490	7,170
	II	11,790	3,410	8,380
	III	11,140	3,255	7,885
	IV	10,257	3,453	6,804
	TOTAL	43,847	13,608	30,239
<u>1987</u>				
	I	10,380	3,280	7,100
	II	11,190	3,350	7,840
	III	10,620	3,280	7,340
	IV	9,920	3,400	6,520
	TOTAL	42,110	13,320	28,790
<u>1988</u>				
	I	10,140	3,670	6,470
	II	10,750	3,380	7,370
	III	10,950	3,300	7,650
	IV	10,210	3,550	6,660
	TOTAL	42,050	13,890	28,160
<u>1989r</u>				
	I	10,460	3,450	7,010
	II	11,490	3,390	8,100
	III	11,100	3,340	7,760
	IV	10,310	3,670	6,640
	TOTAL	43,360	13,850	29,510
<u>1990</u>				
	I <sub>r</sub>	10,770	3,590	7,180
	II <sub>r</sub>	11,390	3,380	8,010
	III <sub>r</sub>	10,860	3,430	7,430
	IV <sub>p</sub>	9,980	3,660	6,320
	TOTAL	43,000	14,050	28,950
<u>1991p</u>				
	I	11,450	3,880	7,570
	II	11,100	3,520	7,580
	III	10,740	3,440	7,300
	IV	9,980	3,670	6,310
	TOTAL	43,270	14,510	28,760

Notes: Data may not add to totals due to rounding.  
r: revised  
p: preliminary



TABLE 5  
POPULATION GROWTH BY CENSUS YEAR, BY COMPONENT  
ALBERTA, 1981 to 1991  
(IN THOUSANDS)

Year	Population (June 1)	Natural Increase			Migration			Total Net Migration				
		Growth	Births	Deaths	Net	International Immig.	Emig.		Net	Interprovincial In	Out	
1981	2237.3	77.2	44.0	13.2	30.8	20.5	7.3	13.2	98.0	64.8	33.2	46.4
1982	2314.5	24.2	45.6	13.0	32.6	14.6	7.9	6.7	57.8	72.9	-15.1	-8.4
1983	2338.7	-0.2	45.1	12.7	32.4	10.6	7.8	2.8	39.9	75.3	-35.4	-32.6
1984	2338.5	10.0	44.2	13.0	31.2	9.5	5.4	4.1	64.5	89.8	-25.3	-21.2
1985	2348.5	26.6	44.3	13.6	30.7	10.1	6.6	3.5	74.2	81.8	-7.6	-4.1
1986	2375.1	2.6	43.3	13.4	29.9	10.4	7.4	3.0	46.2	76.5	-30.3	-27.3
1987	2377.7	11.0	41.6	13.8	27.8	12.7	6.3	6.4	47.5	70.7	-23.2	-16.8
1988	2388.7	37.2	42.9	13.7	29.2	14.8	5.3	9.5	58.1	59.6	-1.5	8.0
1989	2425.9	47.2	43.7	13.9	29.8	17.4	5.6	11.8	67.9	62.3	5.6	17.4
1990	2473.1	49.2	43.6	14.4	29.2	17.8	5.7	12.2	75.8	68.0	7.8	20.0
1991	2522.3											

Note: Data may not add to totals due to rounding.



## **METHODOLOGY**





## METHODOLOGY

### **Natural Increase**

Natural increase is calculated as the difference between the number of births and the number of deaths that occurred during a specific quarter. Preliminary estimates on births and deaths are produced using birth and death rates. The average quarterly crude birth rate and the crude death rate of the preceding year are applied to the estimated provincial population at the beginning of the period to derive the estimated number of births and deaths. These estimates are then replaced by actual counts when data are available from the Vital Statistics Section, Alberta Health. These figures for births and deaths are 98% accurate. At the end of the year, the figures are further revised to include late registrations and out-of-province births and deaths.

### **Interprovincial Migration**

Net interprovincial migration is derived as the balance of in-migration to and out-migration from the province.

To obtain preliminary estimates of interprovincial migration, family allowance transfer of accounts are used in conjunction with the latest adjustment factors and adult-child ratios. Since family allowance cheques are mailed to families monthly, there is incentive for these families to report any change in their address. The time lag in reporting such change is usually very small. Over the years family allowance transfer of accounts data have been an accurate source of the movements of children among the provinces.

The procedures used in estimating interprovincial migration for Alberta are further improved by incorporating additional information from tax records migration data. The adult-child ratios as well as adjustment factors for in and out-migration are used in the computation to derive an estimate of adult migration.



## **Immigration**

The estimate of immigration is first produced on a preliminary basis and then revised when immigration statistics become available. Preliminary estimates are derived taking into consideration the expected number of immigrants to be admitted to Canada in a certain year as announced by Employment and Immigration Canada. Based on the historical immigration records, a ratio is derived to estimate Alberta's share of the total immigrants coming to Canada.

The final estimate of immigrants coming to Alberta is based on statistics compiled from immigration papers which each immigrant submits to the Canadian authority at the port of entry. The immigration papers contain information on the intended place of destination and the place of origin of the immigrant. Since this information is available monthly, the quarterly estimate of immigrants intending to come to Alberta can be calculated.

## **Emigration**

Emigration estimates are derived using information from family allowance data and the number of emigrants to the United States. The family allowance files provide the number of child emigrants from Canada to all countries during the quarter. The USA quarterly tables contain the number of Canadian emigrants by age to the United States. The estimation of the total number of emigrants consists of three steps.

- a) The total number of Canadian emigrants to countries other than USA is estimated by using family allowance data minus the child emigrants to the USA together with an adjustment factor developed from immigration files. This factor, applied to the number of family allowance accounts transferred out of country during the quarter, will provide the number of adult emigrants to countries other than the USA.





- b) The exact number of emigrants to the USA is then added to estimates derived in (a).
- c) The distribution of emigrants by province of origin (Alberta) is derived using the family allowance data.



## GLOSSARY

**Emigration** - the migration of population out of a country to another country.

**Fertility** - the contribution of births to population change.

**Immigration** - the migration of population into a country from another country.

**In-migration** - the migration of population into a geographical area.

**Migration** - a permanent change of residence from one geographical area to another.

**Natural Increase** - the net contribution of births less deaths to population change.

**Net Migration** - the difference between in-migration and out-migration for a geographical area.

**Out-migration** - the migration of population out of a geographical area.







